New England Biolabs
Product Specification

Product Name: Endonuclease VIII
Catalog #: M0299S/L
Concentration: 10,000 units/ml
Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 pmol of a 34-mer oligonucleotide duplex containing a single AP site in a total reaction volume of 10 µl in 1 hour at 37°C in 1X Endonuclease VIII Reaction Buffer containing 10 pmol of fluorescently labeled oligonucleotide duplex.

Shelf Life: 12 months
Storage Temp: -20°C
Storage Conditions: 10 mM Tris-HCl, 250 mM NaCl, 0.1 mM EDTA, 50 % Glycerol, (pH 8.0 @ 25°C)
Specification Version: PS-M0299S/L v1.0
Effective Date: 19 Mar 2018

<table>
<thead>
<tr>
<th>Assay Name/Specification (minimum release criteria)</th>
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<tbody>
<tr>
<td><strong>Exonuclease Activity (Radioactivity Release)</strong> - A 50 µl reaction in Endonuclease VIII Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 10 units of Endonuclease VIII incubated for 4 hours at 37°C releases &lt;0.5% of the total radioactivity.</td>
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<td><strong>Non-Specific DNase Activity (16 Hour)</strong> - A 50 µl reaction in Endonuclease VIII Reaction Buffer containing 1 µg of Lambda-HindIII DNA and a minimum of 30 units of Endonuclease VIII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</td>
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<td><strong>Protein Purity Assay (SDS-PAGE)</strong> - Endonuclease VIII is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</td>
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Derek Robinson
Director of Quality Control

Date 19 Mar 2018

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